

MONORAIL BUMPER

GRXRLS13

TECHNICAL SPECIFICATION

GROXX RAIL BUMPER | GRXRLS13 ELASTIC SAFETY LIMITER

The **Groxx GRXRLS13** is a critical safety termination component designed for rigid rail fall arrest systems. It functions as a dynamic end-stop, preventing the traveler shuttle from exiting the rail track while simultaneously absorbing the kinetic energy of any low-velocity impacts at the line extremities.

CORE PERFORMANCE FEATURES

- Impact Energy Absorption:** Engineered with an integrated elastic buffer structure, the GRXRLS13 dampens the force of a "rushing" shuttle, protecting the traveler's internal bearings and the rail's structural integrity from sudden shock loads.
- Safety Limiting Function:** Acts as a reliable mechanical barrier that ensures the mobile anchor point remains securely within the operational boundaries of the rail system.
- High Load Resistance:** Specifically designed to withstand the significant impact loads generated by heavy traveler units, such as the **GRXRLS12 Horizontal Traveler**, during operational transit.
- M10 Structural Interface:** Features a robust M10 threaded connection, allowing for high-torque installation and long-term vibration resistance.



TECHNICAL SPECIFICATIONS

FEATURE	SPECIFICATION
Model Number	GRXRLS13 (Ref: ADA2503070004)
Material Composition	AISI 304 Stainless Steel & Silicone (Sil)
Safe Load Capacity	12 kN
Safety Factor	1.5
Unit Weight	26 g
Dimensions (D x H)	ø25 mm x 31 mm

MATERIAL SCIENCE & ENVIRONMENT

- Hybrid Build:** Combines the high tensile strength and corrosion resistance of **304 Stainless Steel** with a high-durability **Silicone (Sil)** buffer.
- Resilience:** The silicone component is UV-stabilized and temperature-resistant, ensuring the elastic properties of the bumper remain consistent in both extreme heat and freezing conditions.
- Corrosion Protection:** The stainless steel core is rated for 10 years of service life, making it ideal for architectural and industrial facade maintenance environments.

COMPLIANCE & STANDARDS

The **GRXRLS13** meets the rigorous safety requirements for end-of-line terminations in permanent rail systems:

- EN 795:2012 Type D:** Certified as a safety component for rigid anchor lines (Rated for 1 user).
- CEN/TS 16415:2013:** Tested and compliant for multi-user safety systems, supporting a cumulative capacity for up to 3 users.

THE GROXX ADVANTAGE

The **GRXRLS13 Rail Bumper** is a small but vital insurance policy for any rail installation. By replacing rigid metal-on-metal stops with an elastic silicone buffer, it extends the life of the traveler shuttles and reduces the acoustic noise and structural vibration associated with end-of-line impacts.